

ABSTRACT OF THE DISCLOSURE

A method and system is disclosed for setting up, modifying and tearing down an up-stream communication session in a basic service set (BSS) in a wireless local area network (WLAN), so that the communication session has a defined Quality of Service (QoS).

- 5 Regarding setting up an up-stream communication session, a first Path message and a first Resv message (Path/Resv message) of a RSVP protocol are detected at a designated subnet bandwidth manager (DSBM) in a station having a point coordinator (PC). The first Resv message originates from a RSVP agent of a host outside the BSS, and is a request for setting up an up-stream session between a source non-PC station in the BSS and the PC station. A
- 10 QoS parameter set and a classifier from the first Path/Resv message for the session are extracted at the DSBM. The DSBM determines whether to admit the up-stream session to the network based on the QoS parameter set defining the session and a channel status report on a medium access control (MAC) sublayer of the BSS. When the up-stream session is admitted, a QoS management entity (QME) of the PC station sets up a virtual up-stream
- 15 (VUS) between the source non-PC station and the PC station for transporting the up-stream session traffic. The DSBM is part of the QME in the PC station.